

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number  
**WO 2005/090984 A1**

(51) International Patent Classification<sup>7</sup>: G01N 33/543, C12Q 1/68

(74) Agent: WILSON, Mark, B.; Fulbright & Jaworski, LLP, 600 Congress Avenue, Suite 2400, Austin, TX 78701 (US).

(21) International Application Number:  
PCT/US2005/008826

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 16 March 2005 (16.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(30) Priority Data:  
10/801,982 16 March 2004 (16.03.2004) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 10/801,982 (CIP)  
Filed on 16 March 2004 (16.03.2004)

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (for all designated States except US): AM-BION, INC. [US/US]; 2130 Woodward Street, #200, Austin, TX 78744-1832 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GOLDRICK, Mariana [US/US]; 1802 Barton Parkway, Austin, TX 78704 (US).

WO 2005/090984 A1

(54) Title: PROCESS AND REAGENTS FOR EXTRACTION OF RNA FROM FRACTIONATED BLOOD LEUKOCYTES

(57) Abstract: The current invention relates generally to methods for rapid fractionation of WBCs from whole blood using a proprietary leukocyte depletion filter, which concentrates and partially purifies the WBCs, and for stabilizing the RNA patterns in the fractionated cells. The invention further relates to methods of extracting the RNA from the fractionated cells and using such nucleic acids in any of a variety of molecular biology procedures including, for example, expression profiling.